GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A268 18Cr-2Mo

Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A268 18Cr-2Mo Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel and Tubing

Chemical Composition		
Carbon	C %	0.025 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	1.000 max.
Chromium	Cr %	17.500 - 19.500
Molybdenum	Mo %	1.750 - 2.500
Nitrogen	N %	0.035 max.
Titanium	Ti %	0.208 - 0.800
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	275 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	217 max.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S44400	UNS	USA	Steel
SA-731 18Cr-2Mo	ASME	USA	Steel and Pipe
A 213 18Cr-Mo	ASTM	USA	Steel and Tubing
A 276 S44400	ASTM	USA	Bars and Shapes
A 731 Grade 18Cr-2Mo	ASTM	USA	Steel and Pipe
A 580 S44400	ASTM	USA	Steel and Wire
A 791 Grade 18-2	ASTM	USA	Steel and Tubing

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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